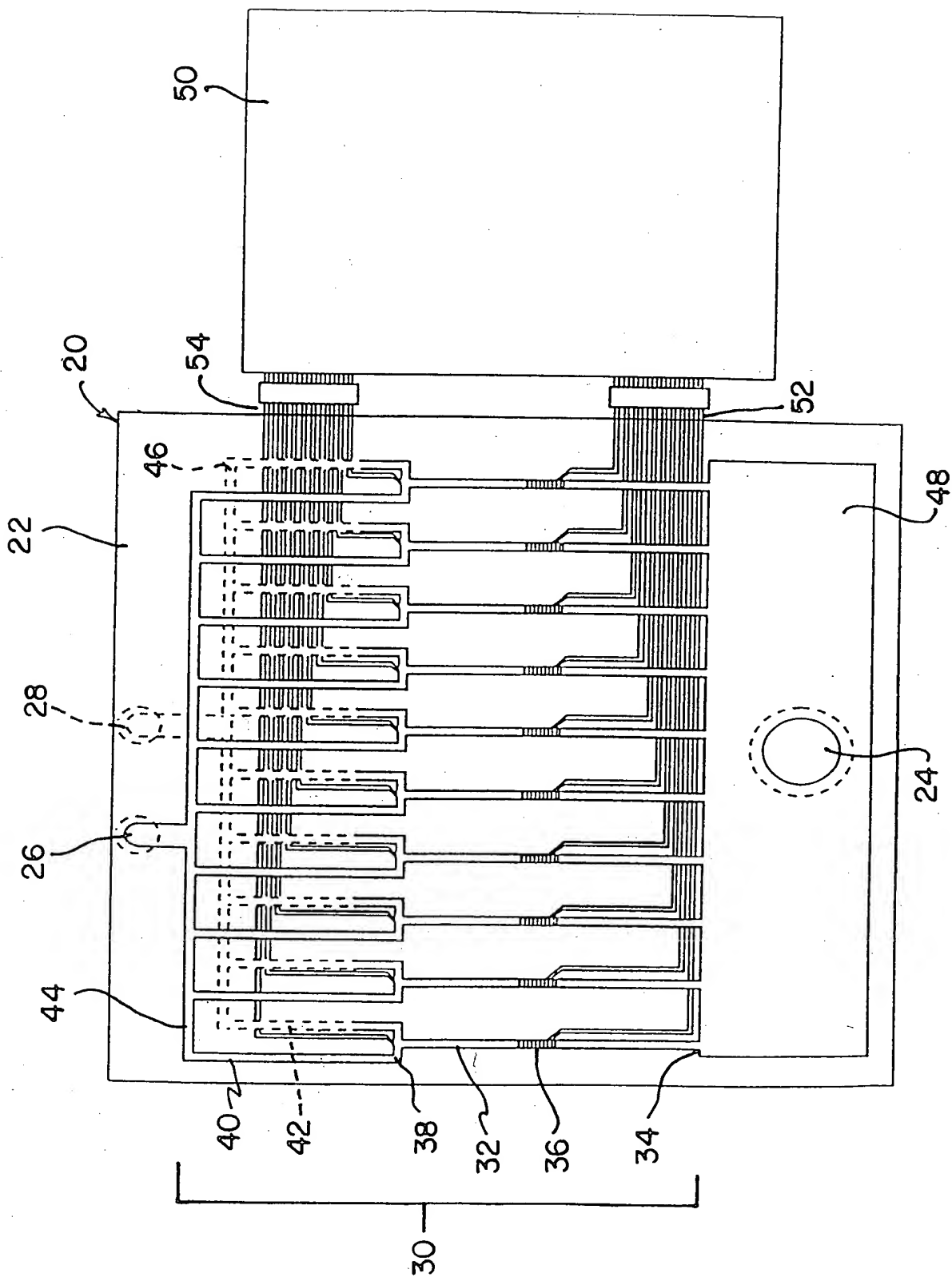




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FIG. 1





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FIG. 2

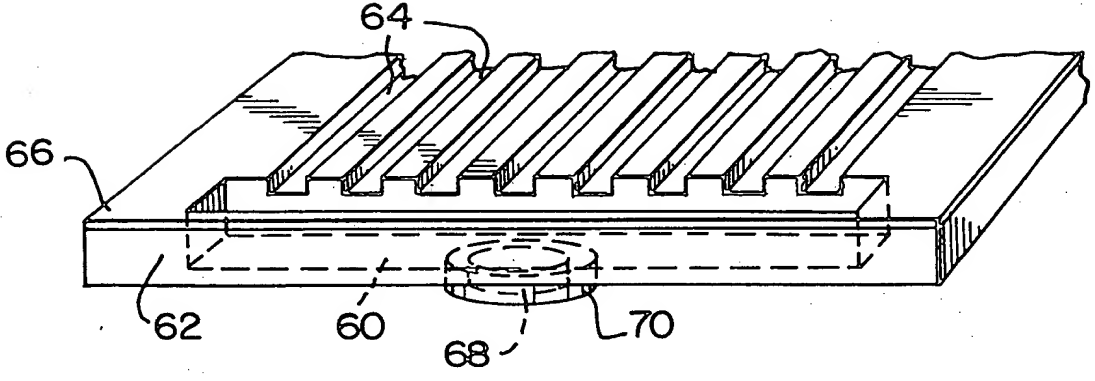


FIG. 3A

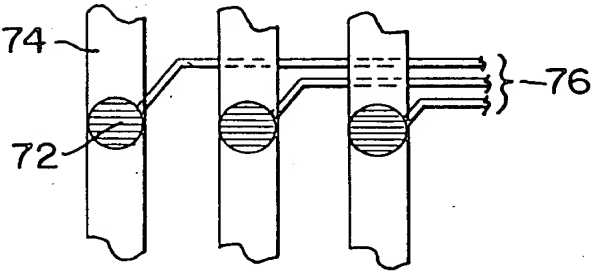


FIG. 3B

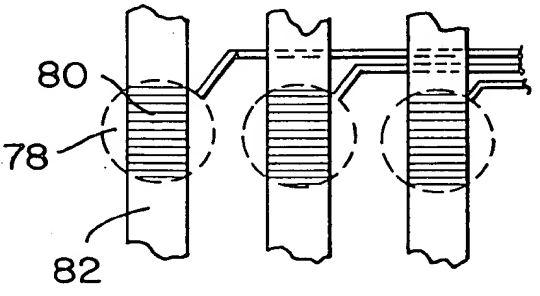


FIG. 4A

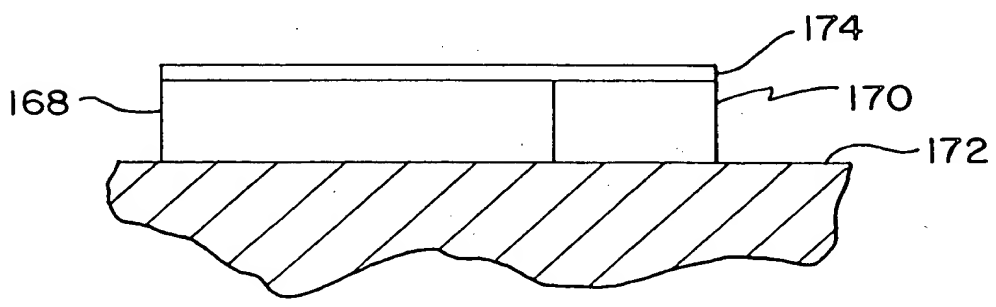


FIG. 4B

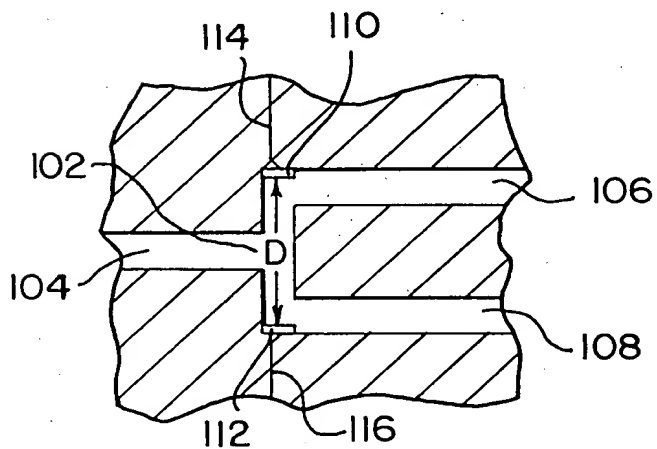
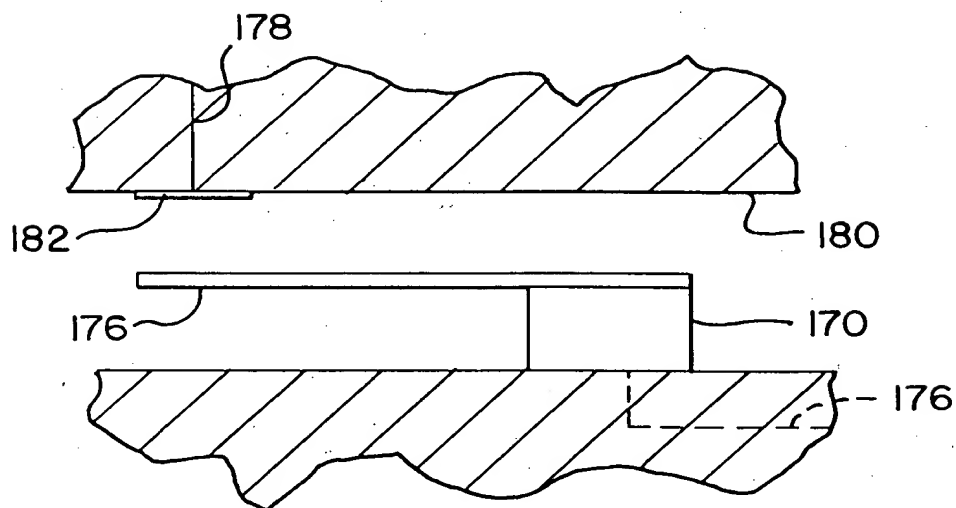
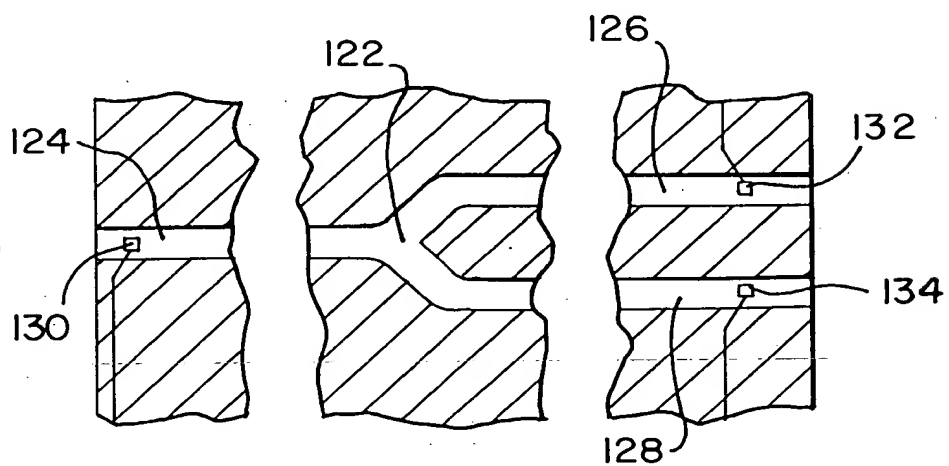


FIG. 5A

FIG. 5B





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FIG. 5C

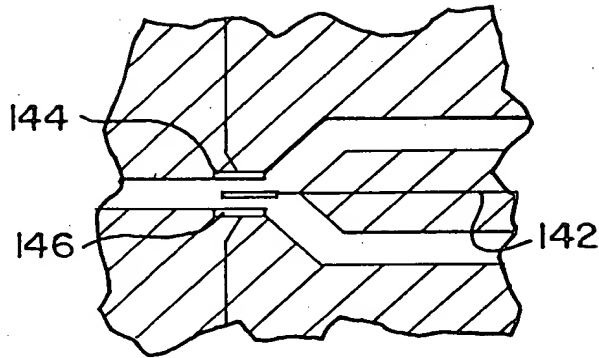


FIG. 5D

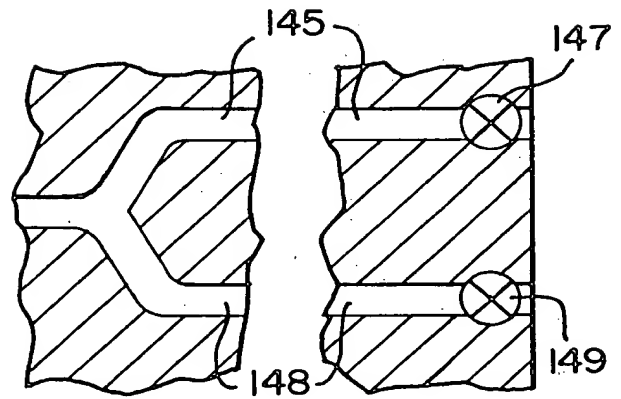
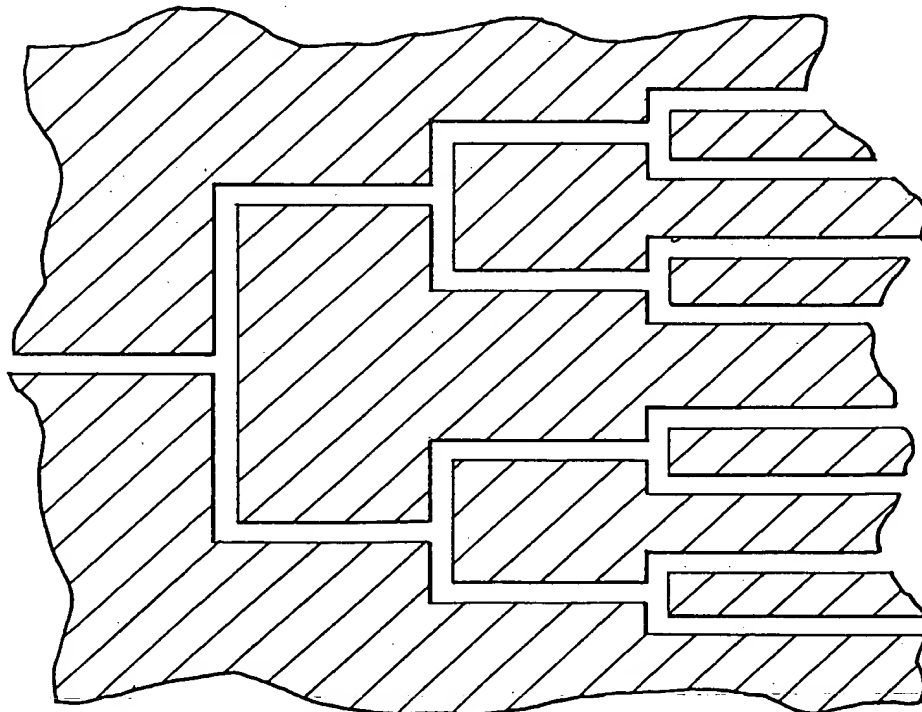


FIG. 6



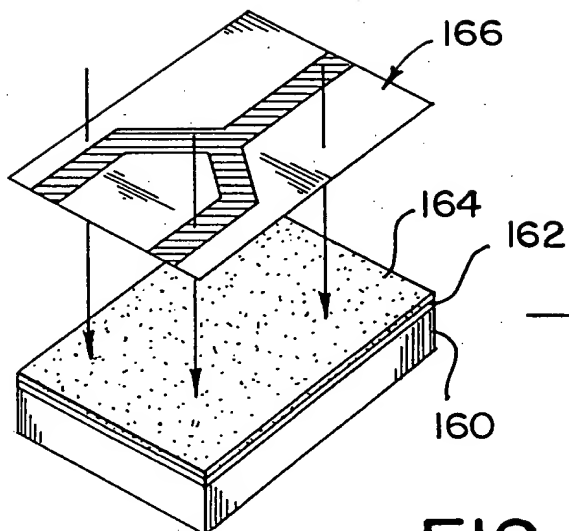
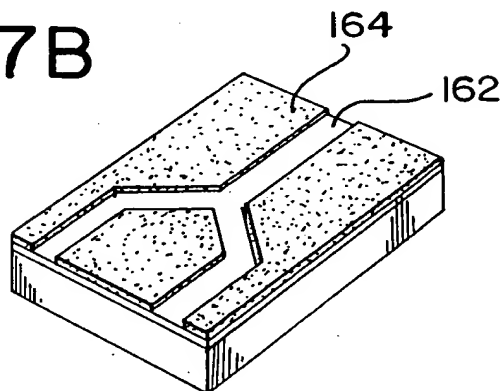


FIG. 7A

DEVELOP
& RINSE

TO
FIG. 7B

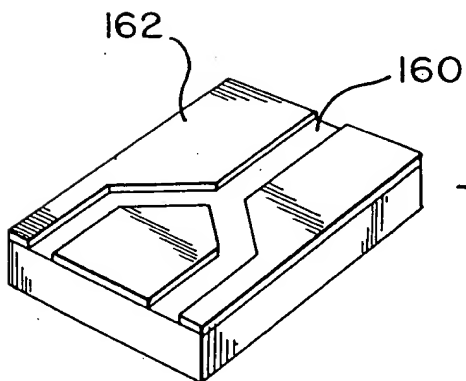
FIG. 7B



TO
FIG. 7C

1. ETCH SiO_2
2. REMOVE
RESIST

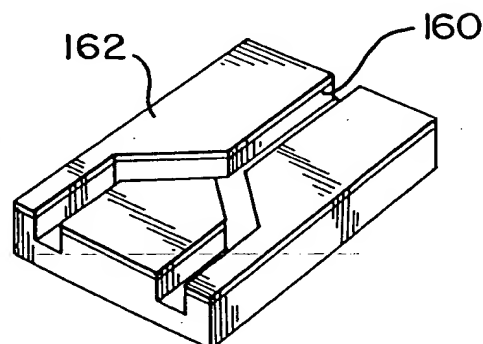
FIG. 7C



ETCH Si

TO
FIG. 7D

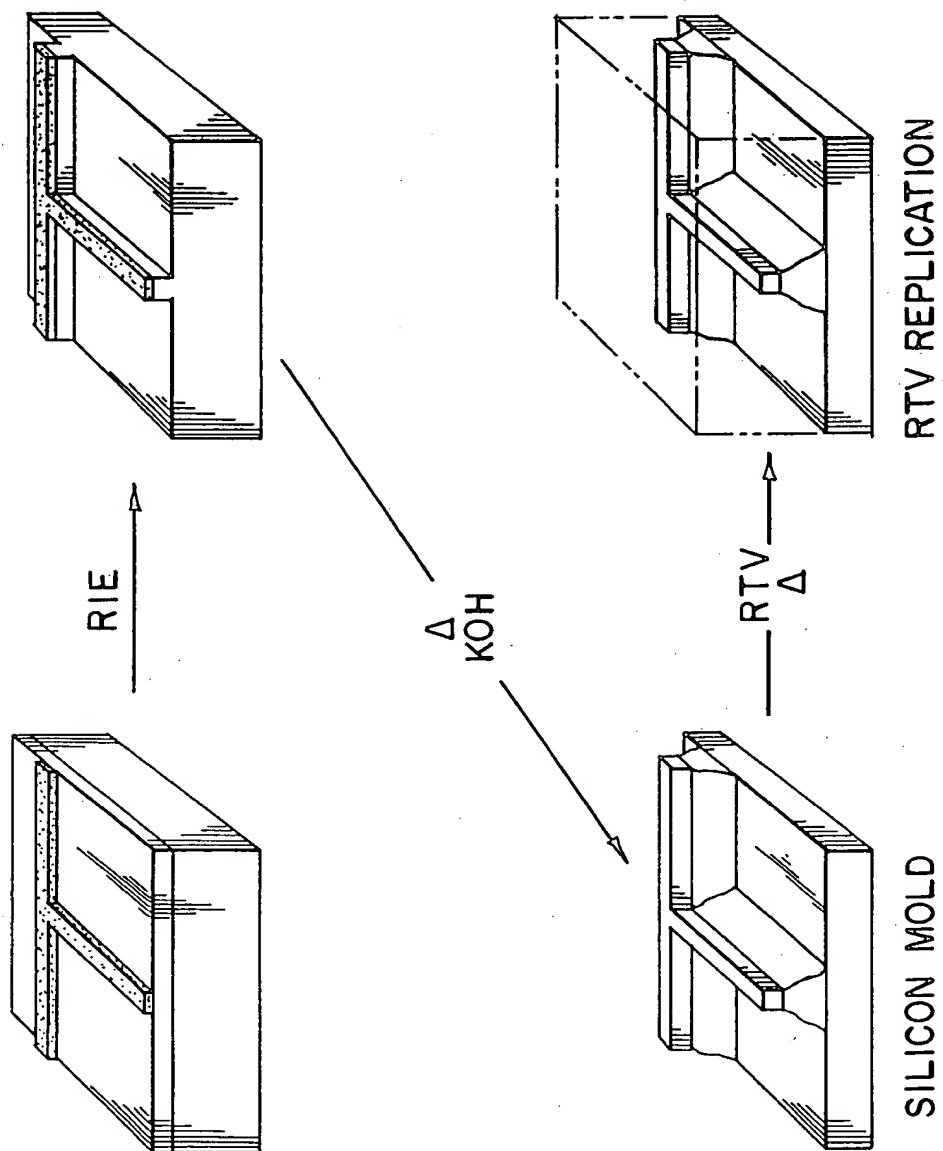
FIG. 7D





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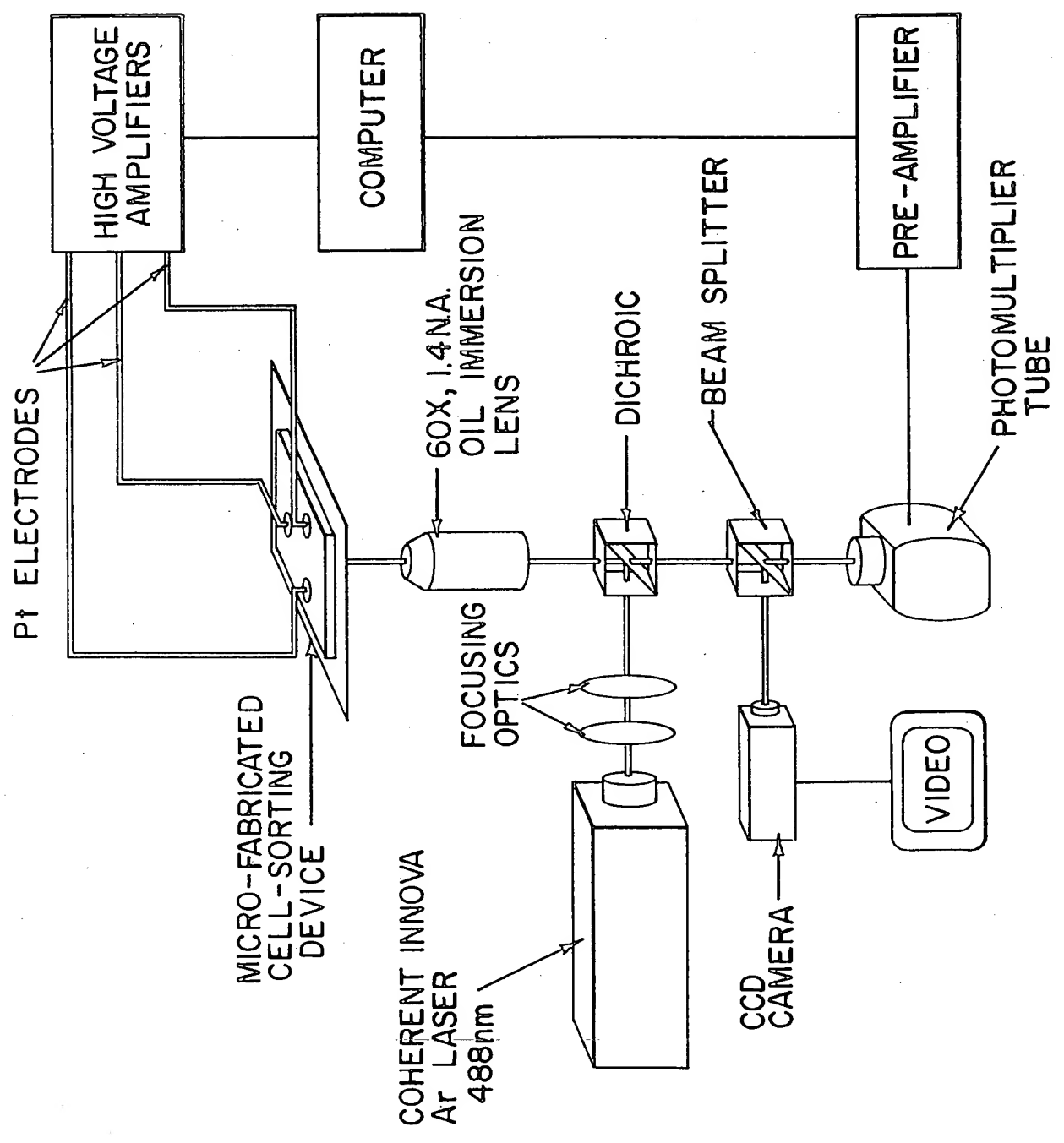
FIG. 8





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FIG. 9





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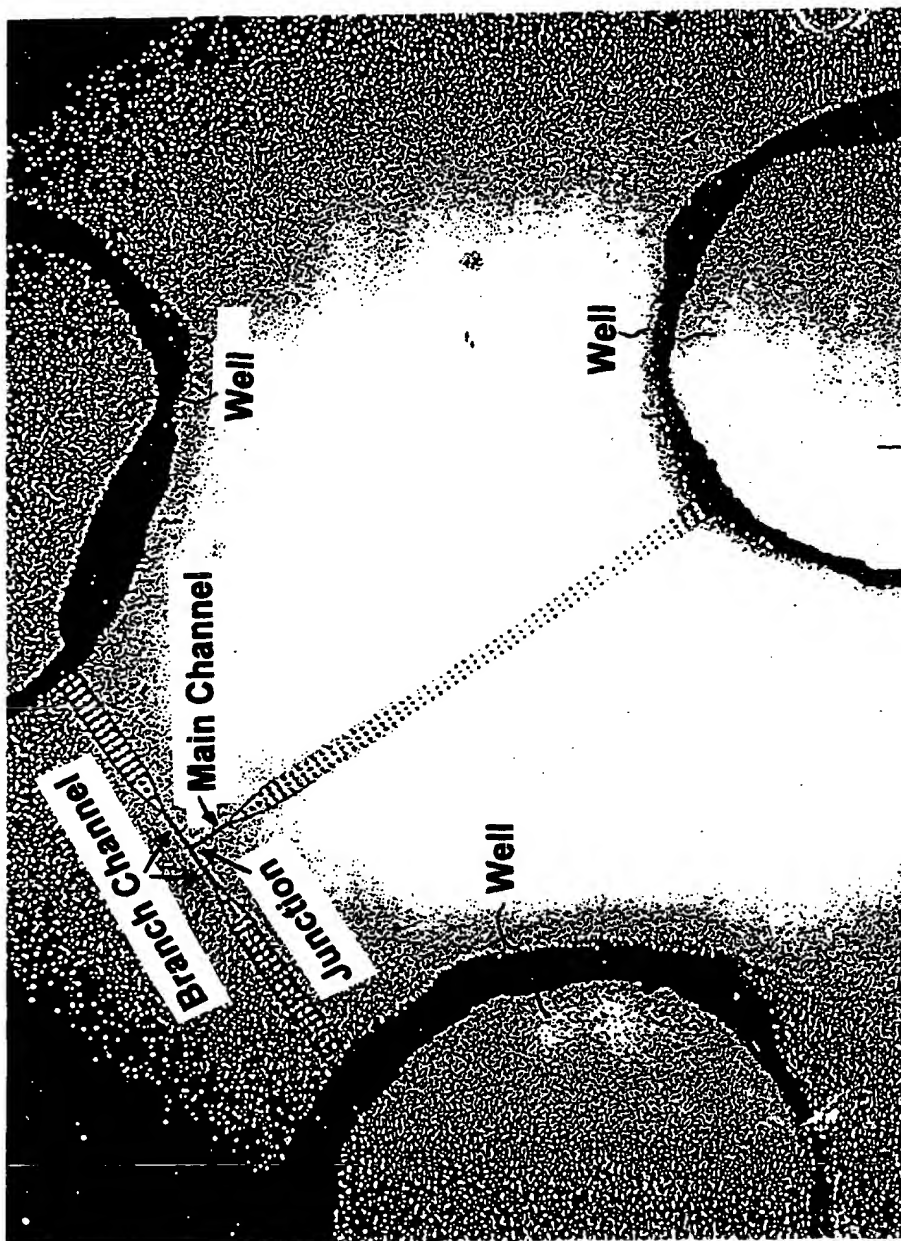
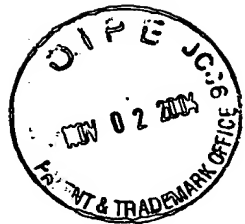


FIG. 10



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FIG. 11A

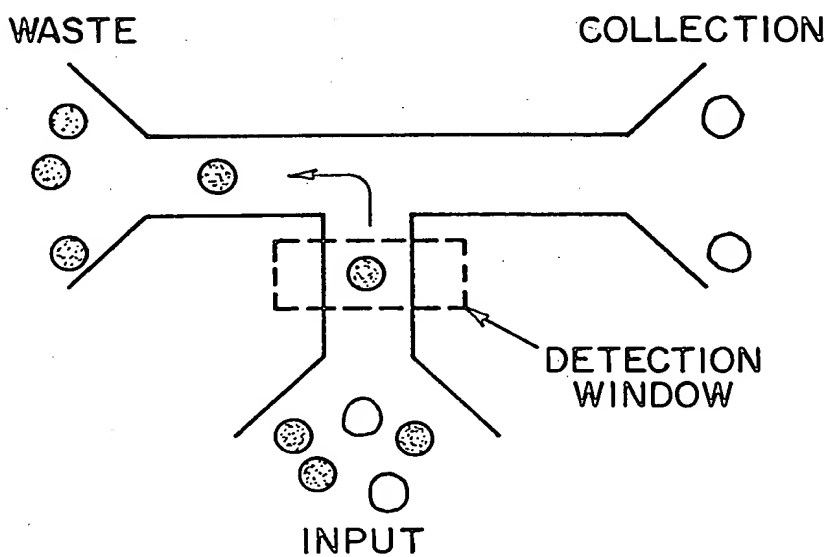
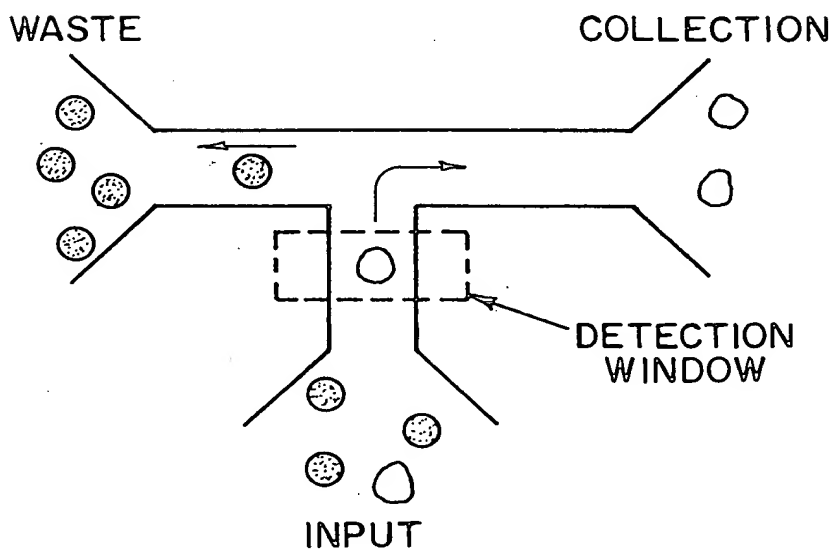


FIG. 11B





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FIG. 12A

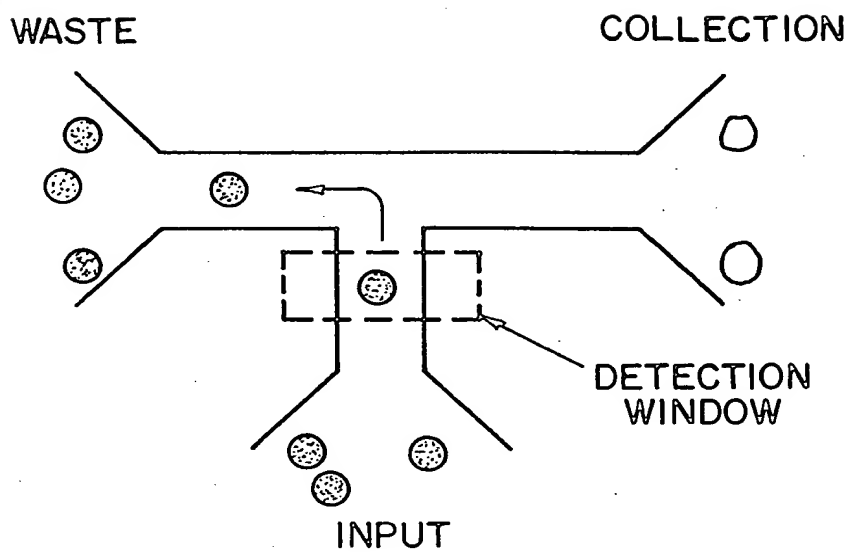
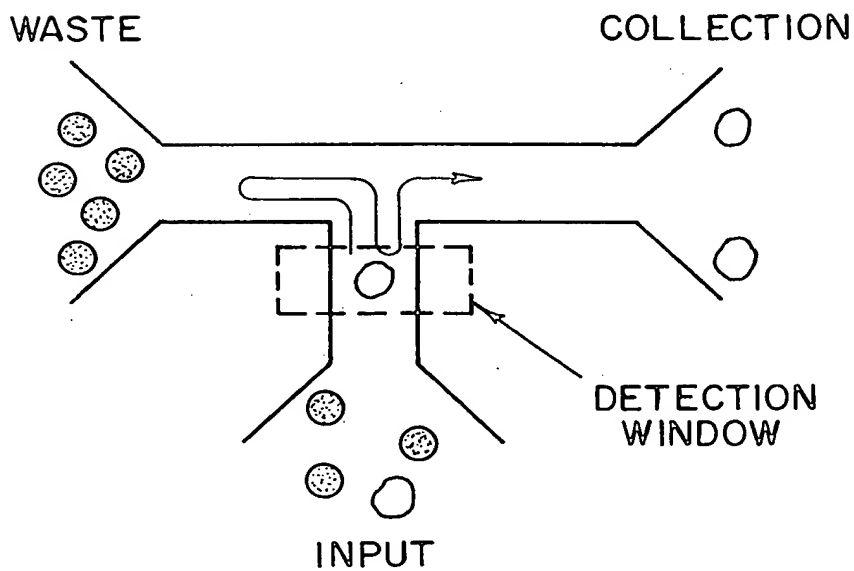
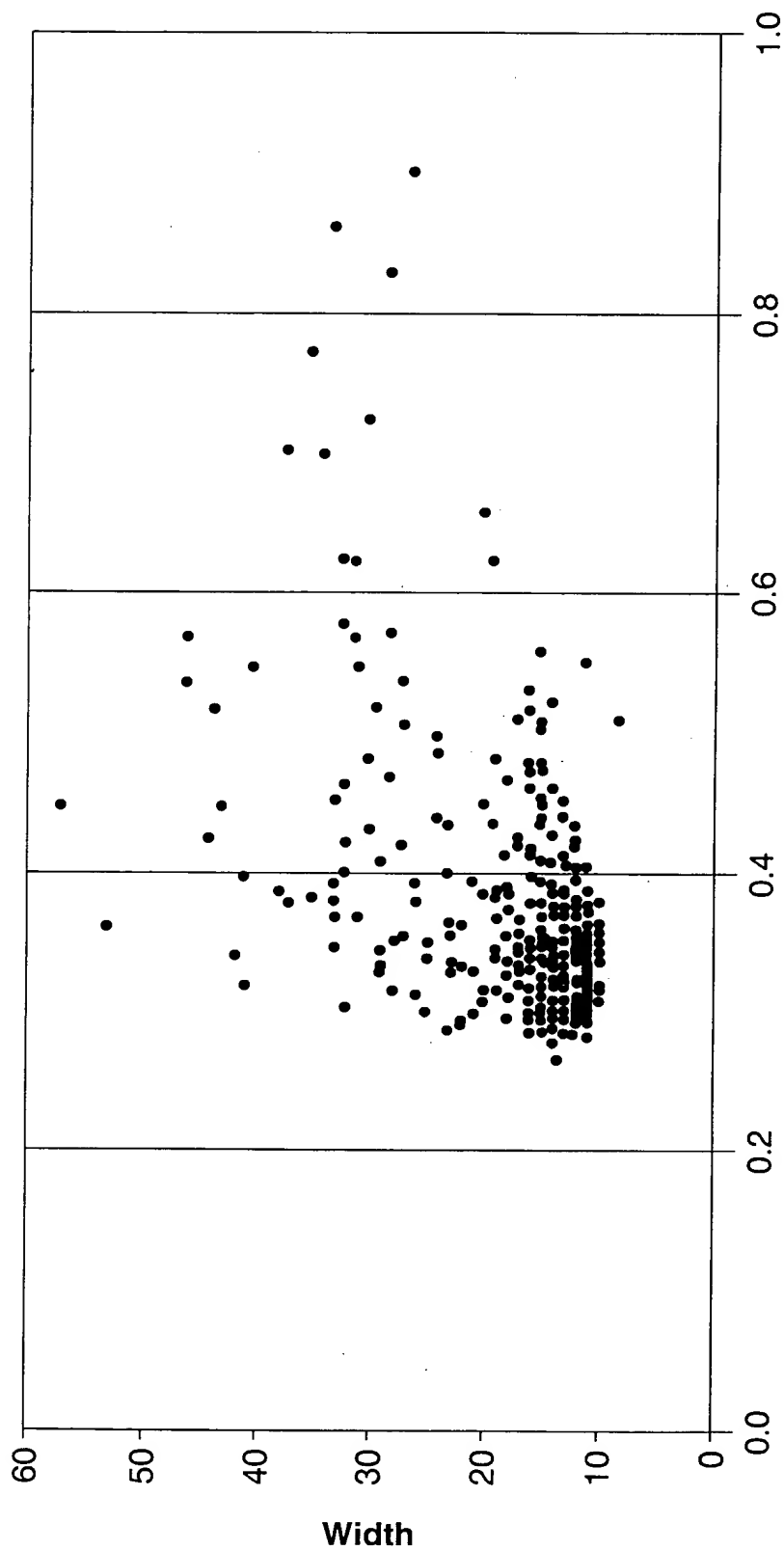


FIG. 12B





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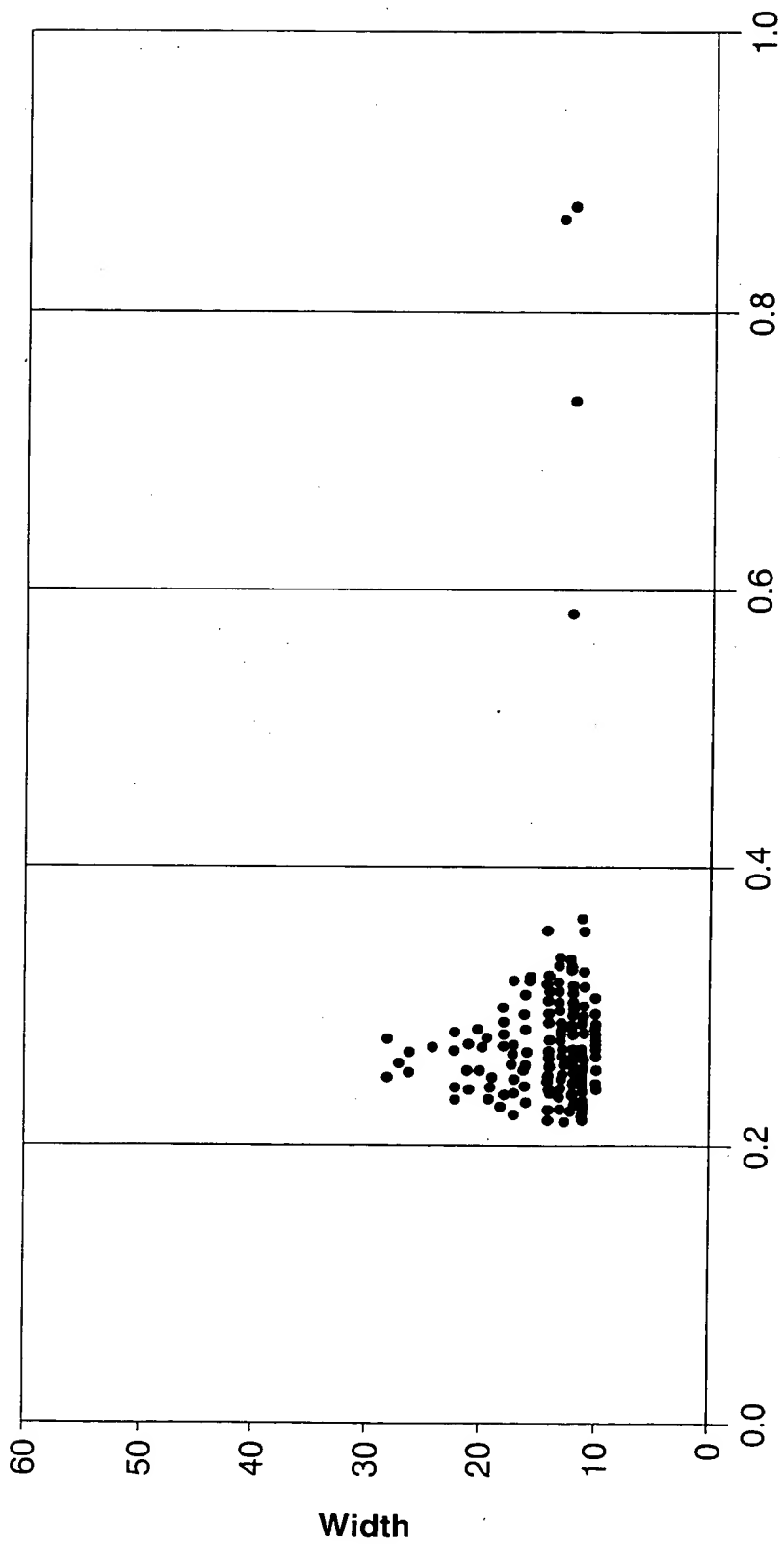


Height (V)
T7 DNA/ T7 Primer
3.45mW Laser Power/ 2.450kV APD Bias

FIG. 13

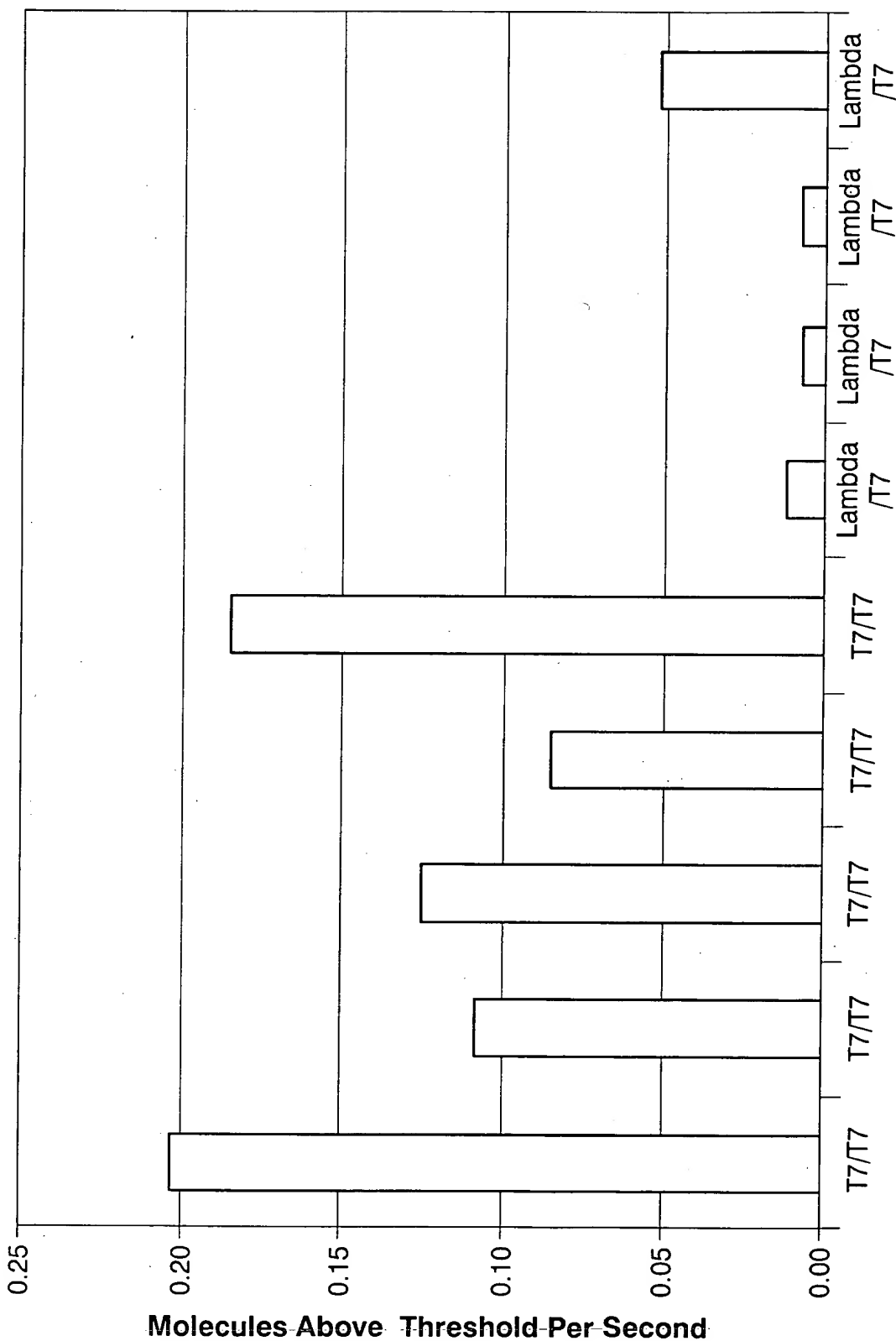


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DNA/Primer
DNA/Primer Diagnosis
Molecular Diagnostics

FIG. 15